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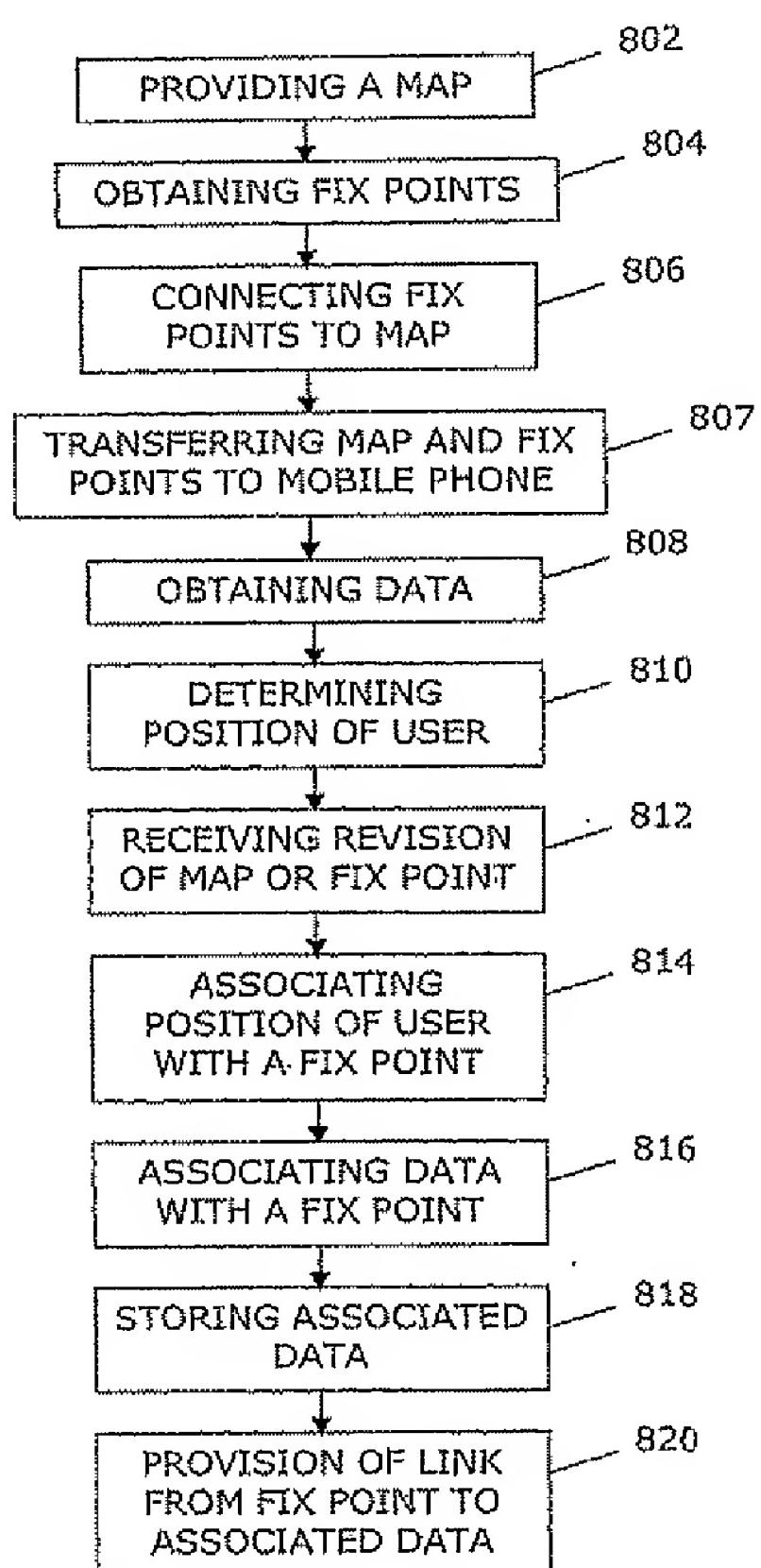
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(54) Title: ORGANIZING MEDIA DATA USING A PORTABLE ELECTRONIC DEVICE



(57) Abstract: The present invention relates to an electronic communication device, a portable electronic device, a method, a computer program product, a computer program element, and a system for organizing electronic media data in relation to fix points of geographic locations. The method for organizing electronic media data in relation to fix points of geographic locations, according to the present invention, comprises: obtaining at least one said fix point related to a scheme (step 804), obtaining at least a link to electronic media data under the control of a user (step 808), determining position of said user (step 810), and associating said obtained data with said at least one fix point (step 816), so that a link from said at least one fix point to the associated data can be provided to the user.

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ORGANIZING MEDIA DATA USING A PORTABLE ELECTRONIC DEVICE

TECHNICAL FIELD OF THE INVENTION

- 5 The present invention relates to electronic organizing of data in relation to fix. More particularly it relates to a portable electronic device, an electronic communication device, a method for organizing electronic media data in relation to fix points of geographic locations, and a system for organizing electronic media data in relation to fix points of geographic locations.

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DESCRIPTION OF RELATED ART

People tend to spend more and more time and money on traveling. As the importance increases planning of trips have become popular, as a trial to increase the outcome of a trip 15 and to avoid tourist traps.

Some degree of planning is performed already around the kitchen table, for example a map is collected and a few potentially interesting sightseeing spots are identified.

20 Using electronic equipment storing parts of this data electronically is made possible.

While on vacation visiting the desired sightseeing spot a number of still pictures, video-clips, films, sound recordings or the like can be recorded.

25 Returning home after the journey while looking at pictures, video-clips, etc. it is soon realized that remembering where data was collected can be a problem. Also, as the number of trips and travels tend to increase year by year a huge collection of electronic media data is resulted and sorting out what is where, can become a tedious and boring exercise.

30 It would be advantageous to easily obtain information about where accessed data was collected, and to receive help in sorting out what is where in the ever increasing electronic media data collection.

There is thus a need for providing a way to organize data so that it is clear where data was 35 collected and so that it is being sorted out what obtained data is where, within the data collection.

SUMMARY OF INVENTION

40 The invention is directed towards solving the problem of connecting obtained data with the location where data was obtained, in a scheme related to said location.

This is achieved by associating obtained data with at least one fix point associated with the position of the user when the data was obtained, so that a link from said at least one fix

point to the associated data can be provided to a user.

A first object of the present invention is to provide a method for enabling organizing data in relation to fix points of geographic locations, which method connects obtained data with the 5 location where data was obtained, comprising associating obtained data with at least one fix point associated with the location of the user at the time the data was obtained, so that a link from said at least one fix point to the associated data can be provided to a user.

According to one aspect of this invention, this object is achieved by a method for enabling 10 organizing data in relation to fix points of geographic locations, comprising the steps of obtaining at least one said fix point related to a scheme, obtaining at least a link to electronic media data under the control of a user, determining position of said user, and associating said obtained data with said at least one fix point, so that a link from said at least one fix point to the associated data can be provided to the user.

15 A second aspect of the present invention is directed towards a method including the features of the first aspect and further comprising the step of associating the position of the user with a fix point, and that the step of associating said obtained data comprises associating data obtained at the position of the user with the fix point associated with the 20 position of the user.

A third aspect of the present invention is directed towards a method including the features of the first aspect and further comprising the steps of providing a scheme, and connecting said at least one fix point to said scheme.

25 A fourth aspect of the present invention is directed towards a method including the features of the first aspect and further comprising the step of storing the associated data.

A fifth aspect of the present invention is directed towards a method including the features of 30 the first aspect and further comprising the step of providing a link from the at least one fix point to the associated data.

A second object of the present invention is to provide a method for organizing data in relation to fix points of geographic locations, which method connects obtained data with the 35 location where data was obtained.

According to a sixth aspect of the present invention, this object is achieved by a method for organizing data in relation to fix points of geographic locations, comprising obtaining at 40 least one fix point, obtaining a scheme for fix points, positioning said at least one fix point in a scheme, in order to enable a portable electronic device to obtain at least one fix point related to the scheme, obtain at least a link to electronic media data under the control of a user, determine position of said user, and associate said obtained data with said at least one fix point, so that a link from said at least one fix point to the associated data can be provided to the user, in relation to said scheme.

A seventh aspect of the present invention is directed to a method including the features of the sixth aspect and further comprising the step of providing access to data obtained by an electronic device by providing a link from the at least one fix point to the associated data, in 5 relation to said scheme.

A third object of the present invention is to provide a portable electronic device for organizing data in relation to fix points of geographic locations, which device connects obtained data with the location where data was obtained.

10 According to an eighth aspect of the present invention, this object is achieved by a portable electronic device arranged to at least partly organize data in relation to fix points of geographic locations, comprising a user input unit, arranged to receive user input data, a positioning unit, arranged to determine the position of a user, at least one data receiving unit, arranged to obtain at least a link to electronic media data in dependence of user control via the user input unit, and a control unit, wherein the control unit is arranged to obtain at least one fix point of a geographic location, to receive positioning information obtained by the positioning unit, and to associate obtained data with said at least one fix point, so that a link from a fix point to the associated data can be provided to the user.

20 A ninth aspect of the present invention is directed to a portable electronic device including the features of the eighth aspect, in which the control unit further is arranged to associate the position of the user with a fix point, and to associate the data obtained at the position of the user with the fix point associated with the position of the user.

25 A tenth aspect of the present invention is directed to a portable electronic device including the features of the eighth aspect and further comprising an information presentation unit, arranged to present information by the control unit, under the control of the user.

30 An eleventh aspect of the present invention is directed to a portable electronic device including the features of the eighth aspect and further comprising a memory unit, arranged to store data received from the at least one data receiving unit under the control of the control unit.

35 A twelfth aspect of the present invention is directed to a portable electronic device including the features of the eighth aspect, in which the device is a mobile phone.

40 A fourth object of the present invention is to provide an electronic communication device for organizing data in relation to fix points of geographic locations, which device connects obtained data with the location where data was obtained.

According to a thirteenth aspect of the present invention, this object is achieved by an electronic communication device for organizing data in relation to fix points of geographic locations, and arranged to obtain at least one fix point, obtain a scheme for fix points,

position said at least one fix point on said scheme, in order to enable a portable electronic device to, obtain at least one fix point related to the scheme, obtain at least a link to electronic media data under the control of a user, determine position of said user, and associate said obtained data with said at least one fix point, so that a link from said at least one fix point to the associated data can be provided to the user, in relation to said scheme.

5 A fourteenth aspect of the present invention is directed to an electronic communication device including the features of the thirteenth aspect and further arranged to provide access to data obtained by an electronic device, by providing a link from the at least a link from the at least one fix point to the associated data.

10 A fifth object of the present invention is to provide a computer program product, which enables organizing data in relation to fix points of geographic locations, for connecting obtained data with the location where data was obtained.

15 According to a fifteenth aspect of the present invention, this object is achieved by a computer program product comprising a computer readable medium, having thereon computer program code means, to make a computer or an electronic device execute, when said program code means is loaded in the computer or the electronic device obtaining of at least one fix point related to a scheme, obtaining of at least a link to electronic media under the control of a user, receiving determined position of said user, and associating of said obtained data with said at least one fix point, so that a link from said at least one fix point to the associated data can be provided to the user.

20 25 A sixth object of the present invention is to provide a computer program element, which enables organizing data in relation to fix points of geographic locations, for connecting obtained data with the location where data was obtained.

30 According to a sixteenth aspect of the present invention, this object is achieved by a computer program element comprising computer program code means to make a computer or an electronic device execute, obtaining of at least one fix point related to a scheme, obtaining of at least a link to electronic media under the control of a user, receiving determined position of said user, and associating of said obtained data with said at least one fix point, so that a link from said at least one fix point to the associated data can be provided to the user.

35 40 A seventh object of the present invention is to provide a computer program product, for organizing data in relation to fix points of geographic locations, enabling connecting obtained data with the location where data was obtained.

According to a seventeenth aspect of the present invention, this object is achieved by a computer program product comprising a computer readable medium, having thereon computer program code means, to make a computer execute, when said program code means is loaded in the computer obtaining of at least one fix point, obtaining of a scheme

for fix points, positioning of said at least one fix point in said scheme, in order to enable the portable electronic device to, obtain at least one fix point related to the scheme, obtain at least a link to electronic media data under the control of a user, determine position of said user, and associate said obtained data with said at least one fix point, so that a link from said at least one fix point to the associated data can be provided to the user, in relation to said scheme.

5 An eighth object of the present Invention is to provide a computer program element, for organizing data in relation to fix points of geographic locations, enabling connecting obtained data with the location where data was obtained.

10 According to an eighteenth aspect of the present invention, this object is achieved by a computer program element comprising computer program code means to make a computer execute, obtaining of at least one fix point, obtaining of a scheme for fix points, positioning of said at least one fix point in said scheme, in order to enable the portable electronic device to, obtain at least one fix point related to the scheme, obtain at least a link to electronic media data under the control of a user, determine position of said user, and associate said obtained data with said at least one fix point, so that a link from said at least one fix point to the associated data can be provided to the user, in relation to said scheme.

15 20 A ninth object of the present Invention is to provide an electronic communication system for organizing data in relation to fix points of geographic locations, which system connects obtained data with the location where data was obtained.

25 According to a nineteenth aspect of the present Invention, this object is achieved by an electronic communication system comprising at least one electronic communication device, at least one portable electronic device; in which system the at least one electronic communicating device for enabling organizing data in relation to fix points of geographic locations is arranged to obtain at least one fix point, to obtain a scheme for fix points, to 30 position said at least one fix point on said scheme, in which system the at least one portable electronic device is arranged to at least partly organize data in relation to fix points of geographic locations, comprising a user input unit, arranged to receive user input data, a positioning unit, arranged to determine the position of a user, at least one data receiving unit, arranged to obtain at least a link to electronic media data in dependence of user 35 control via the user input unit, and a control unit, wherein the control unit is arranged to obtain said at least one fix point of a geographic location, to receive positioning information obtained by the positioning unit, and to associate obtained data with said at least one fix point, so that a link from said at least one fix point to the associated data can be provided to the user.

40 The present Invention has the following advantages:

According to the present invention the portable electronic device access a scheme in which useful information can be attached. It is an advantage to have access to these data, such as

cosy restaurants, useful phone numbers and a link to updated currency rates.

It is advantageous to be provided with information about where the electronic media was collected.

5

A further advantage is the organizing of collected electronic media data, which results in easily accessible and retrievable data.

It should be emphasized that the term "comprises/comprising" when used in this specification is taken to specify the presence of stated features, integers, steps or components, but does not preclude the presence or addition of one or more other features, integers, steps, components or groups thereof.

15 BRIEF DESCRIPTION OF THE DRAWINGS

The present invention will now be described in more detail in relation to the enclosed drawings, in which:

20 fig. 1 visualizes a connection between an electronic communication device according to the present invention and a schematic representation of an application to be run within said electronic communication device;
fig. 2 shows a portable electronic device according to the present invention;
fig. 3 depicts a system for organizing data in relation to fix points of geographic locations,
25 according to the present invention;
fig. 4 shows an information presenting unit of the portable electronic device from fig. 2,
displaying several icons;
fig. 5 shows a schematic representation of an application connected to an icon from fig. 4;
fig. 6, shows a computer program product, having thereon computer program code means,
30 related to the present invention;
fig. 7 shows a portable electronic device according to the present invention; and
fig. 8 presents a flow chart of the method according to the preferred embodiment of the
present invention.

35

DETAILED DESCRIPTION OF THE EMBODIMENTS

The present invention relates to provision of an electronic communication device, a portable electronic device, a method and a system for organizing data in relation to fix points of geographic locations.

Reference will now be given to fig. 1 showing an electronic communication device according to the present invention and a schematic representation of an application to be run within said electronic communication device. According to the preferred embodiment of this

invention this electronic communication device is a computer server, 12, in which server an application, 14, is run that is connected to the method of this invention.

Figure 2 shows a portable electronic device, 22, according to this invention. In the preferred embodiment of the present invention this device is a mobile telephone. It is understood that this portable electronic device can just as well be a PDA (Personal Digital Assistant), a palm top computer, a lap top computer and even a regular computer, such as a PC (Personal computer), in an alternative embodiment of the present invention.

- According to this preferred embodiment of the present invention, the method for organizing obtained data in relation to fix points of geographic locations, to be described in more detail later, is comprised of steps, some of which are performed by the electronic communication device, and some of which are performed by the portable electronic device. According to this preferred embodiment the steps performed by the mobile phone, 22, is dependent on the steps performed by the computer server, 12. The computer server, 12, for organizing data in relation to fix points of geographic locations, is accordingly arranged to perform steps of the method in order to enable the mobile phone, 22, to perform the steps of the method to be executed by said mobile phone.
- Said present invention also relates to a system for organizing data related to fix points of geographic locations, which system comprises an electronic communication device, depicted as a computer server, 32, in fig. 3, and a portable electronic device, depicted as a mobile phone, 36, in the same figure. The two devices are further arranged to communicate with each other. Electronic media data obtained by the mobile phone, 36, can for instance be communicated to the computer server, 32, and application data, to be explained later, is communicated from the computer server, 32, to the mobile phone, 36. In relation to the computer server, 32, a computer screen, 34, connected to the computer server, 32, is also shown.
- Figure 4 shows an information presentation unit in the form of a screen, 42, of for instance the mobile phone, visualizing a number of different icons. Upon activating an icon, 44, an application connected to the method according to this invention is started. In fig. 5, a schematic representation of this application, 52, is shown.
- Moreover, fig. 6 shows an example of a computer program product, in the form of a disc for carrying program code means, for executing, when said computer program product is loaded in a computer or an electronic device, the steps related to the method according to the present invention.
- The present invention will now be explained with reference to figs. 7 and 8, schematically presenting a portable electronic device, 700, and a flow-chart of the method for organizing obtained data in relation to fix points of geographic locations, respectively.

A portable electronic device, 700, according to the present invention is shown in fig. 7. In

the preferred embodiment the portable electronic device, 700, comprises two data receiving units, in the form of one communication unit, 702, and one data input unit, 706. The communication unit, 702, is arranged to send obtained data by the portable electronic device to the computer server, 32, and to receive application related data from the

5 computer server, 32, or other electronic data, as such or in the form of a link to said data, from other parties by using for instance the World Wide Web. The data input unit, 706, is used for obtaining electronic media in any form. In the preferred embodiment of this invention the data input unit, 706, is a digital video camera that can record both audio and video information, as well as still/moving pictures or any combination thereof. This data input unit, 706, is thus arranged to record data. The portable communication device, 700, further comprises a control unit, 712, arranged to control the units included in portable electronic unit, 700, such as the memory unit, 704, the positioning unit, 714, said data input unit, 706, and said communication unit, 702. The control unit, 712 therefore for instance controls the communication of data to and from the mobile phone, under the

10 influence of the user, via a user input unit, 710, and the storing and retrieving data from the memory unit, 704. According to this preferred embodiment of the present invention the portable electronic device also comprises a positioning unit, 714, that is used to serve the control unit, 712, with positioning information of the user of this portable electronic device, 700.

20

In the preferred embodiment of the present invention this positioning unit is a Global Positioning System (GPS) unit, as is well known to a person skilled in the art.

25

Data is presented to the user by the information presenting unit, 708, that is connected to both the data input unit, 706, and the memory unit, 704, which are under the control of the user.

30

The method for organizing data obtained in relation to fix points of geographic locations, will be described in more detail below with reference to the above mentioned fig. 1, presenting the electronic communication device, in the form of the computer server, 12, and the application, 14, connected to the method.

35

This application is typically run by a user interested in traveling. The application is well suited for a person who appreciates having data, such as still pictures, video clips, sound recordings, text data, links or other electronic media data, related to a travel organized and easily accessible in relation to a representation of a geographic location, preferably where the data was obtained.

40

In this application, the user who would like to go traveling, for instance down loads a map of the area of interest. According to this preferred embodiment a map is downloaded, but as an alternative in another embodiment the map can be any kind of scheme in which or onto which fix points can be attached, connected or associated. The scheme can for instance be a list, an array, a circular arrangement or order of objects, a roundtrip list, a collection of discrete fix points, any at least two fix point-group or any combination of fix points

connected to each other.

Already at this stage, at home in front of the computer, sightseeing spots, such as museums, shops, monuments, beaches, discotheques, cities, regions, countries, etc., in short geographic locations worthwhile visiting are hence marked on the map as fix points by the user.

As can be realized below fix points may very well be revised, added or deleted by the user of the mobile phone, 36.

There may be several different schemes of travel-related data, such as maps with spots attached as fix points, stored in the computer and accessible by the user of the computer server. These schemes or maps can for example be arranged in an hierarchical order with a map covering for instance different cities, and other maps covering sightseeing spots or locations with each of these cities.

In the preferred embodiment of this invention the application, 14, as represented in fig. 1, is a travel diary application. This travel diary application can, in accordance to what is outlined above, provide a map to the user. The application further provides fix points of the geographic locations, selected by the user.

As is schematically presented in fig. 1, the application, 14, provides a map including fix points of a Tuscany tour, with fix points A – E. These fix points, represented by one letter abbreviations, due to limited space, are preferably positioned at the geographic location of each of these fix points on the map.

By running this application in for example a mobile phone, the application data, i.e. the scheme, here in the form of a map, together with fix point information, is communicated from the computer server to the mobile phone. In the mobile phone the map together with the attached fix points of geographic locations will thus be provided. During the travel the user can use the mobile phone running this diary application, and has the possibility to collect data of interest and store said data in relation to the fix points attached to the map.

Consequently, in the method according to preferred embodiment of the present invention will now be explained by referring to fig. 8, the computer server, 12, provides a scheme, step 802, in the form of a map to the user under the control of the user. The user typically selects, for instance, a traveling area and the computer server, 12, provides a map of said selected area. It is realized that the user directly can select or choose a map, in an alternative embodiment. In connection to receiving the map, according to this preferred embodiment, the user selects or chooses places worthwhile visiting, regions of interest, or, for instance, just sightseeing spots of potential interest. These selections or choices are marked by user and obtained by the computer server, step 804, according to the method as fix points. The computer server then connects said obtained fix points, step 806, to the chosen map. In this case, for which the scheme is in the form of a map, these fix points are

- preferably positioned at the individual geographic location of said fix points on the map. In an alternative embodiment, in which the scheme is a list or a non-map scheme, the fix points are ordered following another criterion, for instance the order in which the corresponding physical locations may be visited or according to the length of time spent on the geographical location. In another alternative embodiment time stamping of obtained data can be utilized in order to organize the data, so that the data can be organized according to the time it was acquired. The fix points may still carry information about the geographic location where the data was acquired, but also carry time information. Such an alternative may be used for following the change in flower blossoms for instance at a sight seeing spot, various trends, a changing scenery of for example the sky, or in order to form a series of pictures by connecting still pictures to one another, of for example, your brother's first parachuting event, or the changes in day light and the illumination of city, as a function of time.
- Upon starting the application in the mobile phone, application information in the form of a map with attached fix points are transferred from the computer server to the mobile phone, step 807, in the preferred embodiment of the present invention. However this information can be sent to the mobile phone prior to activating the application in the mobile phone, by using the system contact of the mobile phone. Of course this information can also be sent over the system connector, even during activating of the application in the phone.

In the preferred embodiment of the present invention the user can retrieve data for instance from a map elsewhere, by for example establishing a connection between the portable electronic device and the electronic communication device. This may be used for finding a certain geographic location that may be difficult to find.

In the preferred embodiment when running the application, 44, that is connected to the method in the portable electronic device, 700, in the form of for instance a mobile phone, the user collects data, i.e. the device obtains data, step 808, for instance electronic multimedia data. Within the mobile phone information and data is presented to the user by utilizing the information presentation unit, 708. In the preferred embodiment this unit is a color screen of any kind. In alternative embodiments the information presentation unit, 708, comprises a speaker, a ear-phone and/or a vibrator. According to said embodiments the number of information presentation units, 708, can thus be two or more.

Returning to the preferred embodiment of the invention; the data obtained in this step, step 808, is typically received by the data input unit, 706, in the form of still pictures, moving pictures, sound or any combination thereof. In an alternative embodiment, the communicating unit, 702, obtains data, again under the control of the user, but in which the data obtained, at least is a link to data preferably of interest to the user. Thereafter the positioning unit, 714, determines the position of the user, step 810, under the control of the control unit, 712. According to this preferred embodiment of the present invention, the control unit receives revision of the map or a fix point, step 812, under influence of a user, utilizing the user input unit, 710.

The revision of the map or a fix point is enabled because the user may very well modify his trip and decides to include a number of new fix points. By revising the map an additional tour may be added to the map, upon which new fix points may be required. During
5 sightseeing additional fix points may just as well be added.

Upon, for example, taking a still picture, this electronic media data, is normally associated with the fix point that is physically closest to the position of the positioning unit.

- 10 In an alternative embodiment the user may be asked to include a novel fix point, upon obtaining data, if the physical distance between an already existing fix point and the position of the positioning unit, is longer than a predefined distance, for the associating of the obtained data.
- 15 In the preferred embodiment of this invention this user input unit, 710, is a key pad unit. In an alternative embodiment of said invention the user input unit, 710, is a touch screen. In yet another alternative the user input unit, 710, and the information presentation unit, 708, is a single unit in the form of, for example, a touch screen.
- 20 Having access to positioning information, from the positioning unit, 714, the control unit, 712, associates the position of the user with a fix point, step 814. Thereafter, associating data with the fix point of the user is performed by the control unit, 712, step 816. Subsequently, the associated data is stored, step 818, in the memory unit, 704.
- 25 According to the invention and the connected application, the electronic media data obtained by the user of the mobile phone, 700, is made available to the computer server, 12, in order to organize the data, so that a link from at least one fix point to the associated data can be provided to the same or another user of the computer server. According to this preferred embodiment the data obtained in the mobile phone is stored in said phone, by
30 using the memory unit, 704, before making said data available to the computer server.

The memory unit, 704, is according to a preferred embodiment a memory stick that can be detached from the mobile phone and inserted into an electronic device for reading memory sticks. In an alternative embodiment the memory unit, 704, is a USB-memory or any kind of
35 electronic memory and according to yet another embodiment it is a hard disc of any kind.

As an alternative, the obtained data is communicated to the computer server in real or semi-real time. This communication can either be performed over the air interface, i.e. via the communication unit, 702, of the mobile phone, 700, or via a system connector (not shown) of said portable electronic device connecting the mobile phone to a network.
40

According to the preferred embodiment of the present invention the communication between the portable electronic device, in the form of a mobile phone, and the electronic communication device, in the form of a computer server, is performed by using Multimedia

messaging service (MMS). However, according to an alternative embodiment of the present invention the communication of data, preferably electronic media data, is performed by using E-mail messages over the Internet. Other methods for communication may as well be possible using this invention, within an alternative embodiment.

5

- According to the preferred embodiment of the present invention, the computer server, 12, when running the application, 14, connected to the method according to the present invention, controls whether the server has received any electronic media. If data has been received, the computer server provides a link from the fix point associated with the position where the data was obtained, to the data itself, step 820. By activating the link, i.e. by clicking of the fix point of geographic location, the user is given access to the data associated with said activated fix point associated with the position of the user where the data was obtained.
- 10
- 15 The order of the steps of the flow chart presented in fig. 8, can be changed, for instance the step of receiving revision map or fix points, can instead be placed before the step of obtaining data or at some other position, or even be deleted, according to an alternative embodiment.
- 20 The data acquired by using the portable electronic device during a travel is thus not only organized but also easily accessible by using the application presenting various fix points of geographic locations.

According to the preferred embodiment to the present invention, the control unit, 712, within the portable electronic device as presented in fig. 7, is for instance realized by one or more processors with attached processor memory, comprising computer program code means, to make said processor or processors, when said program code means is loaded in the portable electronic device, execute the steps of the method according to the invention. This program code means can be carried on a computer program product from which the code means is read, or, for example be downloaded from the Internet by using the World Wide Web network in the form a computer program element for executing the steps of the method.

35 The electronic communication device, as schematically presented in fig. 1, is realized by a computer server connected to a network including a transceiver device.

It is emphasized that this invention can be varied in many ways, of which the alternative embodiments above and below only are a few examples. These different embodiments are hence non-limiting examples. The scope of this present invention, however, is only limited by the subsequently following claims.

According to another embodiment of the present invention, the portable electronic device also performs some or all of the steps that are performed by the electronic communication

device, according to the preferred embodiment. That is the method for organizing data in relation to fix points of geographic locations, is at least partly performed within the portable electronic device.

- 5 According to another embodiment of the present invention, the application data sent from the electronic communication device to the portable electronic device contains discrete fix points only, i.e. without the enclosure or the scheme to which they are attached.

According to yet another embodiment of the present invention, the electronic communication device contains a number of schemes with attached fix points, from which 10 the user selects one or more schemes to be transmitted to or loaded into to the portable electronic device. Upon activating the application in the portable electronic device the user selects which map is to be used.

15 According to still yet another embodiment of the present invention, the application data created at the electronic communication device by the user, can be stored in a portable memory unit detachably connected to the electronic communication device. This memory unit is for example a USB-memory, which the user can connect to the portable electronic device for loading the application data into said portable electronic device.

20 According to yet another embodiment of the present invention, the positioning of the user of the portable electronic is performed by utilizing any combination of the position of the neighboring base stations, the cell identity in with the user is located and Timing Advance (TA). Any other positioning method may very well be used in order to determine the 25 position of the user of the portable electronic device such as triangulation.

According to yet another embodiment the data input unit is a scanner, a text reading unit, such as a C-pen and/or a microphone.

30 According to another embodiment of the present invention, the portable electronic device is a camera.

According to yet another embodiment of the present invention, the portable electronic device is a wrist-watch camera.

35 According to still yet another embodiment of the present invention, data obtained by a user at a position associated with a fix point, need not to be associated with the fix point associated to the user, but may be associated with another fix point, for instance by 40 optionally answering a question, whether another fix point shall be used, by including this another fix point. When receiving for example a video-clip of Paris while physically being in Rome, there is a possibility to associate said video-clip with the fix point Paris, instead the fix point associated with the position of the user, when obtaining the data.

With the present invention has thus been described an electronic communication device, a portable electronic device, a method and a system for organizing data in relation to fix points of geographic locations, having the following advantages:

- 5 Enabling access to a scheme in which useful information can be attached. It is an advantage to have access to these data, such as cosy restaurants, useful phone numbers and a link to updated currency rates.

Being provided with information about where the electronic media was collected.

- 10 Providing of organizing of collected electronic media data, which results in easily accessible and retrievable data.

- 15 When the invention is provided in a mobile phone, it allows the user to combine a good companion and an electronic media data organizer with other functionalities, in one device.

CLAIMS

1. Method for enabling organizing data in relation to fix points of geographic locations, comprising the steps of:

- 5
- obtaining at least one said fix point related to a scheme (step 807),
 - obtaining at least a link to electronic media data under the control of a user (step 808),
 - determining position of said user (step 810), and
 - associating said obtained data with said at least one fix point (step 816),

10 so that a link from said at least one fix point to the associated data can be provided to the user.

15 2. Method according to claim 1, further comprising the step of:

- associating the position of the user with a fix point (step 814),

20 and that the step of associating said obtained data comprises associating data obtained at the position of the user with the fix point associated with the position of the user (step 816).

25 3. Method according to claim 1 or 2, further comprising the steps of:

- providing a scheme (step 802), and
- connecting said at least one fix point to said scheme (step 806).

4. Method according to any one of claims 1 - 3, further comprising the step of:

- storing the associated data (step 818).

30 5. Method according to any one of claims 1 - 4, further comprising the step of:

- providing a link from the at least one fix point to the associated data (step 820).

35 6. Method for organizing data in relation to fix points of geographic locations, comprising:

- obtaining at least one fix point (step 804),
- providing a scheme for fix points (step 802),
- positioning said at least one fix point in a scheme (step 806),

40 In order to enable a portable electronic device (22, 700) to:

- obtain at least one fix point related to the scheme (step 807),
- obtain at least a link to electronic media data under the control of a user (step 808),

- determine position of said user (step 810), and
- associate said obtained data with said at least one fix point (step 816),

5 so that a link from said at least one fix point to the associated data can be provided to the user, in relation to said scheme.

7. Method for organizing data according to claim 6, further comprising the step of:

- 10
- providing access to data obtained by an electronic device by providing a link from the at least one fix point to the associated data, in relation to said scheme (step 820).

15 8. Portable electronic device (22, 700) arranged to at least partly organize data in relation to fix points of geographic locations, comprising:

- a user input unit (710), arranged to receive user input data,
- a positioning unit (714), arranged to determine the position of a user,
- at least one data receiving unit (702, 706), arranged to obtain at least a link to electronic media data in dependence of user control via the user input unit, and
- a control unit (712),

20

25 wherein the control unit (712) is arranged to obtain at least one fix point of a geographic location (step 807), to receive positioning information obtained by the positioning unit (714), and to associate obtained data with said at least one fix point (816),

so that a link from a fix point to the associated data can be provided to the user.

30 9. Portable electronic device (22, 700) according to claim 8, in which the control unit (712) further is arranged to associate the position of the user with a fix point (step 814), and to associate the data obtained at the position of the user with the fix point associated with the position of the user (step 816).

35 10. Portable electronic device according to claim 8 or 9, further comprising:
- an information presentation unit (708), arranged to present information by the control unit (712), under the control of the user.

40 11. Portable electronic device (22, 700) according to any one of claims 8-10, further comprising:
- a memory unit (704), arranged to store data received from the at least one data receiving unit (702, 706) under the control of the control unit (712).

12. Portable electronic device (22, 700) according to any one of claims 8-11, in which the device is a mobile phone.
- 5 13. Electronic communication device (12, 32) for organizing data in relation to fix points of geographic locations, and arranged to:
- obtain at least one fix point (step 804),
 - provide a scheme for fix points (step 802),
 - position said at least one fix point on said scheme (step 806),
- 10 in order to enable a portable electronic device (22, 700) to,
- obtain at least one fix point related to the scheme (step 807),
 - obtain at least a link to electronic media data under the control of a user (step 808),
 - determine position of said user (step 810), and
 - associate said obtained data with said at least one fix point (step 816),
- 15 so that a link from said at least one fix point to the associated data can be provided to the user, in relation to said scheme.
- 20 14. Electronic communication device (12, 700), according to claim 13, further arranged to:
- 25
- provide access to data obtained by an electronic device, by providing a link from the at least a link from the at least one fix point to the associated data (step 820).
- 30 15. A computer program product (62) comprising a computer readable medium, having thereon:
computer program code means, to make a computer or an electronic device (22, 700) execute, when said program code means is loaded in the computer or the electronic device (22, 700):
- obtaining of at least one fix point related to a scheme (step 807),
 - obtaining of at least a link to electronic media under the control of a user (step 808),
 - receiving determined position of said user, and
 - associating of said obtained data with said at least one fix point (step 816),
- 35
- 40 so that a link from said at least one fix point to the associated data can be provided to the user.

16. A computer program element comprising:
computer program code means to make a computer or an electronic device
(22, 700) execute,
- obtaining of at least one fix point related to a scheme (step 807),
- obtaining of at least a link to electronic media under the control of a user
(step 808),
- receiving determined position of said user, and
- associating of said obtained data with said at least one fix point (step
816),

5

10

so that a link from said at least one fix point to the associated data can be provided to the user.

17. A computer program product (62) comprising a computer readable medium,
having thereon:
computer program code means, to make a computer (12, 32) execute, when
said program code means is loaded in the computer (12, 32):

20

- obtaining of at least one fix point (step 804),
- providing of a scheme for fix points (step 802),
- positioning of said at least one fix point in said scheme (step 806),

in order to enable the portable electronic device (22, 36, 700) to,

25

- obtain at least one fix point related to the scheme (step 807),
- obtain at least a link to electronic media data under the control of a user
(step 808),
- determine position of said user (step 810), and
- associate said obtained data with said at least one fix point (step 816),

30

so that a link from said at least one fix point to the associated data can be provided to the user, in relation to said scheme.

18. A computer program element comprising:
computer program code means to make a computer (12, 32) execute,

35

- obtaining of at least one fix point (step 804),
- providing of a scheme for fix points (step 802),
- positioning of said at least one fix point in said scheme (step 806),

40

in order to enable the portable electronic device (22, 36, 700) to,

- obtain at least one fix point related to the scheme (step 807),
- obtain at least a link to electronic media data under the control of a user

- (step 808),
- determine position of said user (step 810), and
- associate said obtained data with said at least one fix point (step 816),

5 so that a link from said at least one fix point to the associated data can be provided to the user, in relation to said scheme.

19. Electronic communication system comprising:

- 10 - at least one electronic communication device (32),
- at least one portable electronic device (36);

15 in which system the at least one electronic communicating device (32) for enabling organizing data in relation to fix points of geographic locations is arranged to:

- 20 - obtain at least one fix point (step 804),
- provide a scheme for fix points (step 802),
- position said at least one fix point on said scheme (step 806),

25 in which system the at least one portable electronic device (36) is arranged to at least partly organize data in relation to fix points of geographic locations, comprising:

- 30 - a user input unit (710), arranged to receive user input data,
- a positioning unit (714), arranged to determine the position of a user,
- at least one data receiving unit (702, 706), arranged to obtain at least a link to electronic media data in dependence of user control via the user input unit (710), and
- a control unit (712),

35 wherein the control unit (712) is arranged to obtain said at least one fix point of a geographic location (step 807), to receive positioning information obtained by the positioning unit, and to associate obtained data with said at least one fix point (step 816), so that a link from said at least one fix point to the associated data can be provided to the user.

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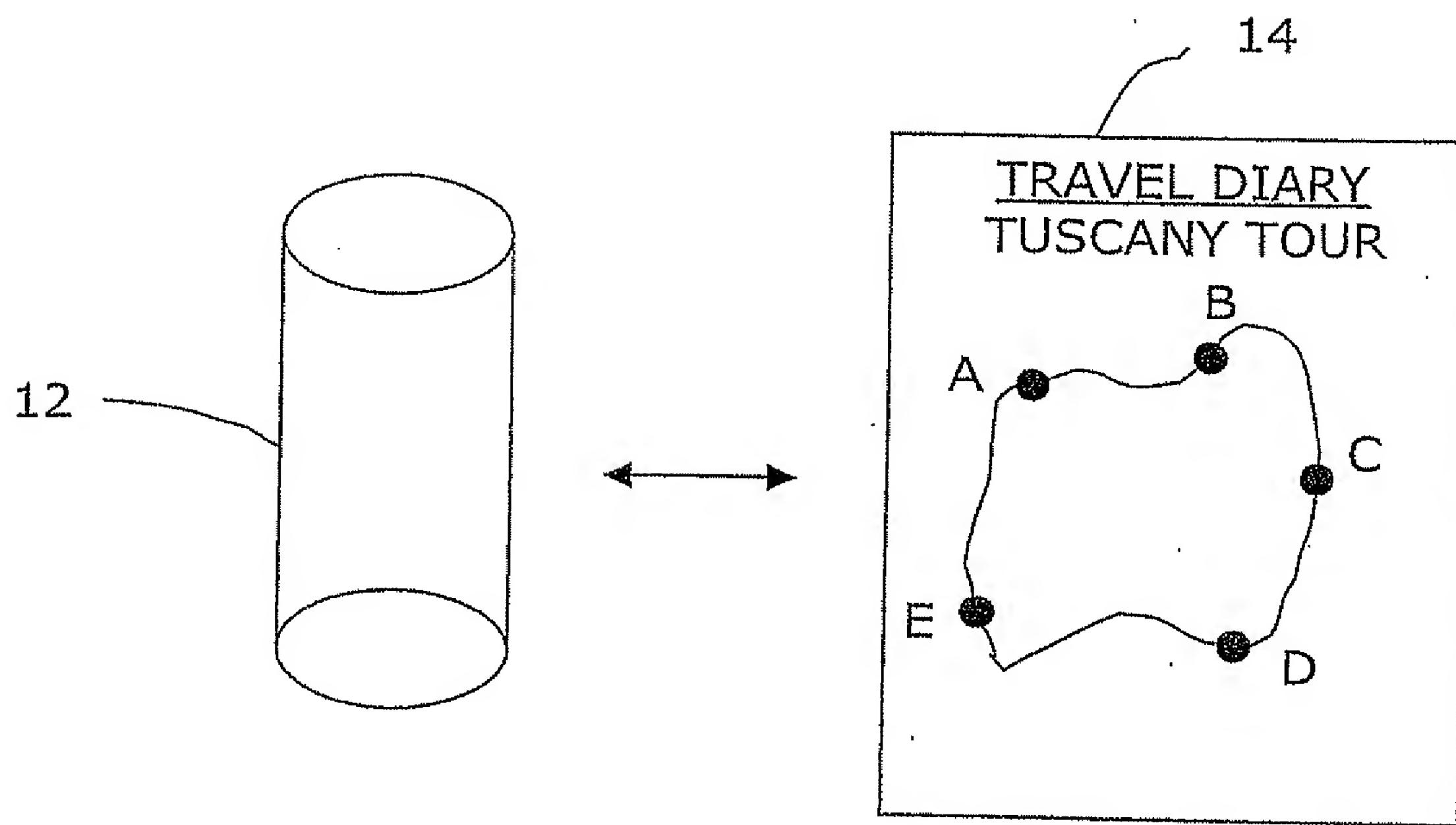


Fig. 1

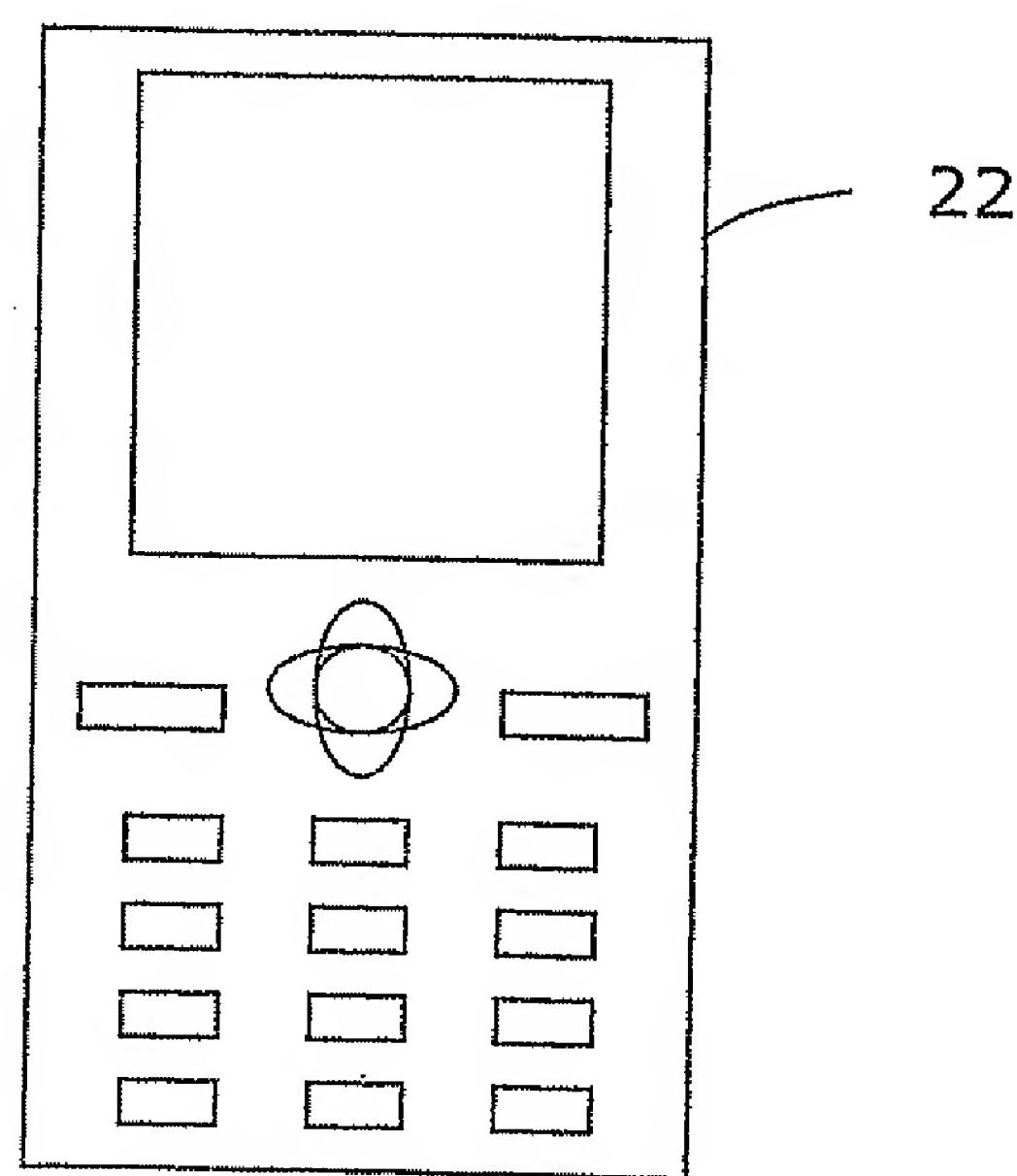
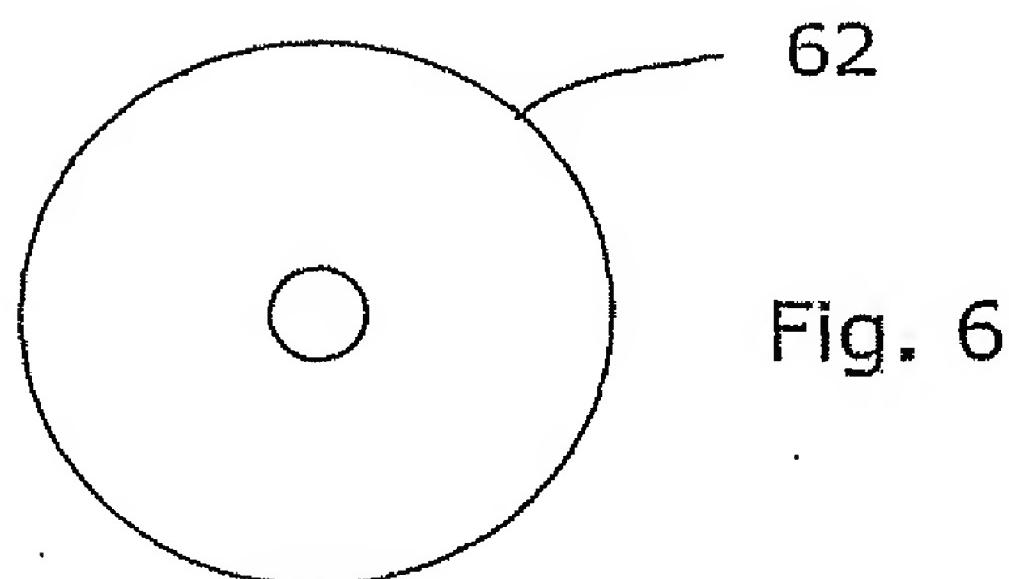
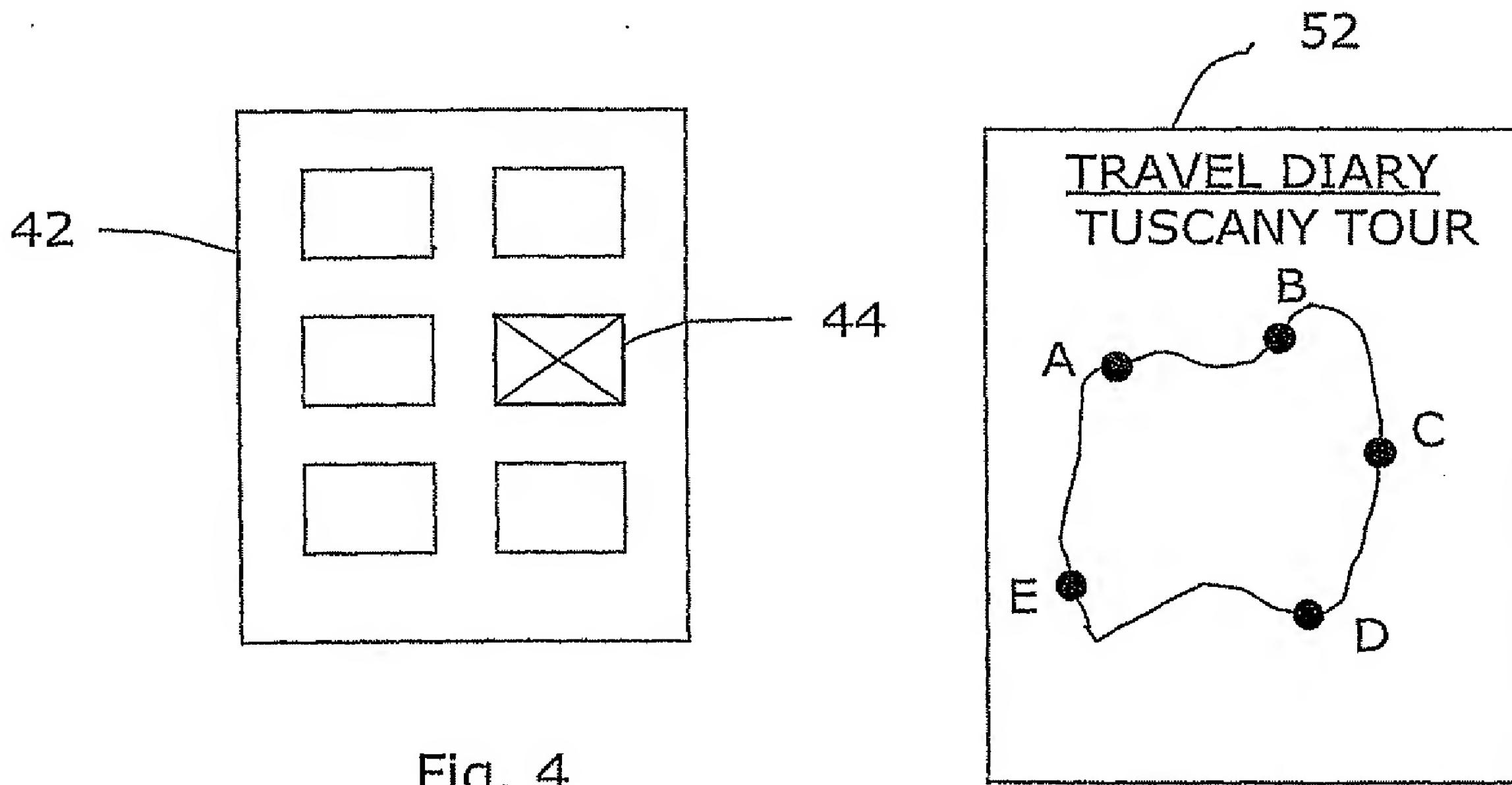
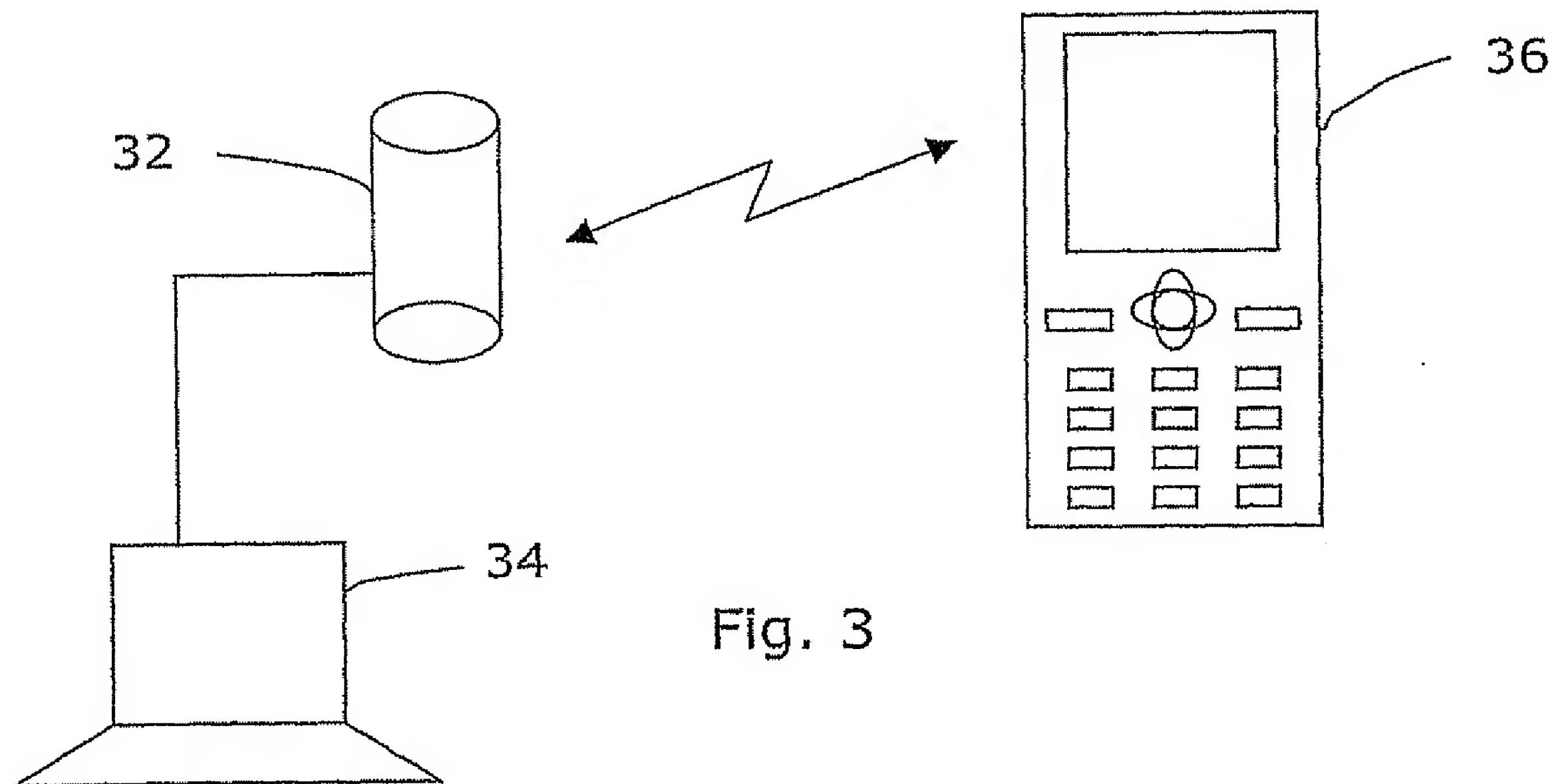


Fig. 2

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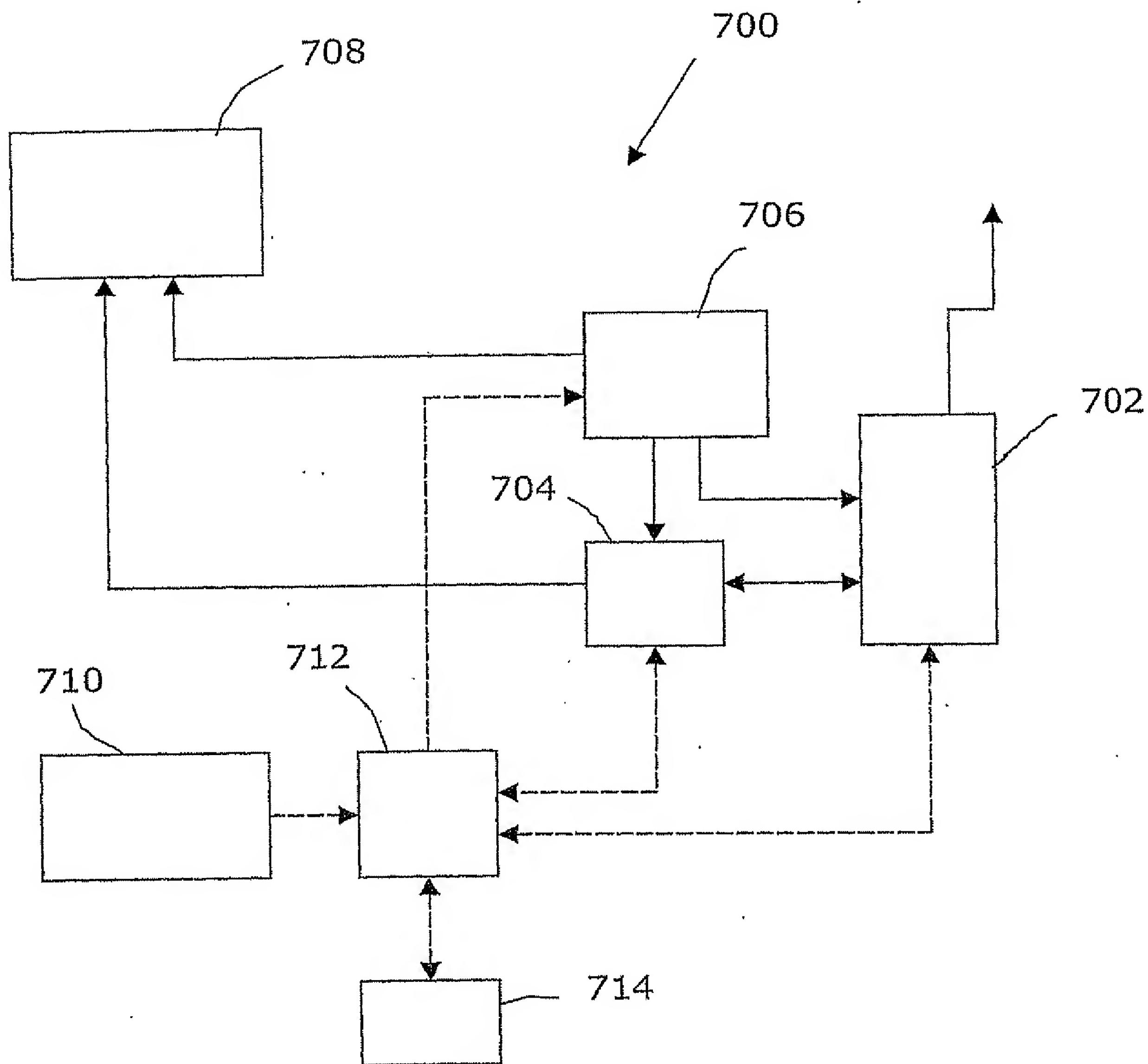


Fig. 7

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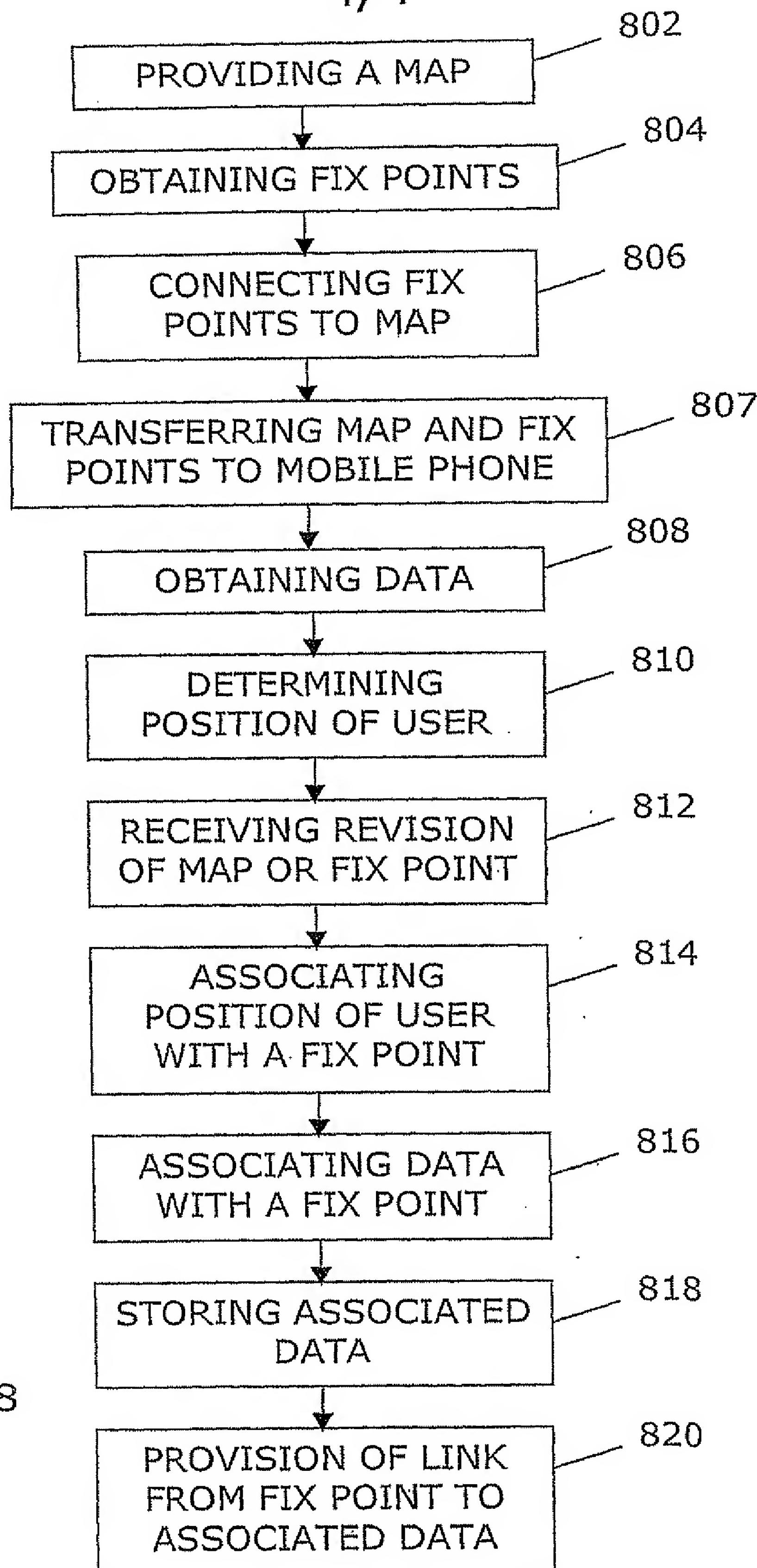


Fig. 8

INTERNATIONAL SEARCH REPORT

International Application No

1 /EP2004/012392

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 G06F17/30

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 G06F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2003/140056 A1 (WALL CARROLL EDWARD ET AL) 24 July 2003 (2003-07-24) abstract paragraph '0018!; figure 1 paragraph '0022!; figure 2B paragraph '0026!	1-19
X	US 6 553 310 B1 (LOPKE MICHAEL S) 22 April 2003 (2003-04-22) abstract column 1, line 27 - line 35 column 2, line 11 - line 30 column 6, line 20 - line 36; figure 1 -/-	1-19

 Further documents are listed in the continuation of box C. Patent family members are listed in annex.

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Date of the actual completion of the international search

19 April 2005

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INTERNATIONAL SEARCH REPORT

International Application No

PCT/EP2004/012392

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 6 381 603 B1 (CHAN JAWE ET AL) 30 April 2002 (2002-04-30) abstract column 5, line 39 – line 47; figure 2 column 5, line 65 – column 6, line 26; figure 5 -----	1

INTERNATIONAL SEARCH REPORT

Information on patent family members

National Application No

PCT/EP2004/012392

Patent document cited in search report		Publication date	Patent family member(s)		Publication date
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US 6553310	B1	22-04-2003	NONE		
US 6381603	B1	30-04-2002	AU CA CN EP JP WO US	2988000 A 2361765 A1 1346474 A 1159697 A1 2002538526 A 0051046 A1 2002049742 A1	14-09-2000 31-08-2000 24-04-2002 05-12-2001 12-11-2002 31-08-2000 25-04-2002